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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/519,226	12/27/2004	Kazuo Chikaraishi	XA-10244	9311	
181 75	90 08/29/2006		EXAM	INER	
MILES & STOCKBRIDGE PC			BOEHLER, ANNE MARIE M		
1751 PINNACL SUITE 500	LE DRIVE		ART UNIT	PAPER NUMBER	
	MCLEAN, VA 22102-3833			3611	
			DATE MAILED: 08/29/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Action Commence	10/519,226	CHIKARAISHI, KAZUO			
Office Action Summary	Examiner	Art Unit			
	Anne Marie M. Boehler	3611			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 6(a). In no event, however, may a reply be till apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on This action is FINAL. 2b) ☑ This Since this application is in condition for allowan closed in accordance with the practice under Experiments.	- action is non-final. ce except for formal matters, pro				
Disposition of Claims					
4) Claim(s) 1-8 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-8 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or					
Application Papers					
9) ☐ The specification is objected to by the Examiner					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:				

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1. Claims 5, 6, and 8 are objected to because of the following informalities:

In claim 5, line 3, before "heat radiation fins" "the" should be deleted.

In claims 6, line 2, "a" should be inserted before "housing".

In claim 8, before "heat radiation fins" "the" should be deleted. Appropriate correction is required.

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1 and 3-5 are rejected under 35 U.S.C. 102(b) as being anticipated by Endo (USPN 5,732,790).

Endo shows a power steering system with a worm speed reducer 152, 117b mounted in gear housing 150. The gear housing includes cooling fins 150a (Figure 7) on its exterior that form a cooling means to dissipate heat during operation of the gearing.

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 2 and 6-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Endo in view of Behnke (USPN 5,056,213).

Endo lacks a fan attached to the worm of the worm gear speed reduction.

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Behnke shows a motor 15 speed reduction gearing arrangement with a worm 22

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attached to the worm 22 to help cool the gearing.

It would have been obvious to one of ordinary skill in the art to provide a cooling fan attached to the worm gear, as taught by Behnke, in order to enhance cooling of the gearing.

and worm wheel 24 mounted in a gear housing 10. At least one cooling fan 46, 48 is

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Achenbach show a power steering system with cooling means.

Acker and Sharp each show a cooling fan mounted to a worm shaft.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anne Marie M. Boehler whose telephone number is 571-272-6641. The examiner can normally be reached on 7:30-5:00, Monday-Thursday, and alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lesley Morris can be reached on 571-272-6612. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Anne Marie M Boehler Primary Examiner

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